

Active Claims

1 2. A method of assigning identifying indicia to objects in multidimensional space comprising the
2 steps of:
3 sorting objects initially according to a first dimension of their location in multi- dimensional
4 space;
5 determining ambiguities among coordinate values of their location in the multi-dimensional
6 space according to whether separation of objects in a dimension is less than a predetermined
7 threshold value;
8 grouping subsets of objects according to ambiguities in the objects; and
9 ordering ambiguous objects in subsets according to other dimensions of the multidimensional
10 space.

1 3. The method according to claim 2 wherein said determining step includes the step of
B12 312 ascertaining a predetermined threshold value based on known errors of position measurements.

1 4. The method according to claim 2 including an initial step of:
2 selecting as the first dimension of a multidimensional coordinate system that dimension along
3 which separation of objects exhibits the greatest dispersion.

1 5. The method according to claim 2 wherein said grouping steps includes the step of:
2 determining ambiguities among coordinate values according to whether separation of targets is
3 less than any of a plurality of predetermined threshold values.

1 6. The method according to claim 2 wherein said determining step includes the step of:
2 ascertaining a predetermined threshold value based on a maximum rate of change of position of
3 one target with respect to any other.

- 1 7. The method according to claim 5 wherein said determining step includes the steps of:
2 ascertaining one of said predetermined threshold values based on maximum rate of change of
3 position of one object with respect to any other; and
4 ascertaining another one of said predetermined threshold values based on the random
5 errors of measurements in positions of the objects.

- B1 1 8. A method of sorting indicia corresponding to objects moving through a multidimensional space
2 comprising the steps of:
3 scanning the multidimensional space to detect positions of objects therein;
4 assigning unique indicia to each detected object;
5 sorting assigned indicia along one coordinate axis of the multidimensional space;
6 grouping into subsets any indicia exhibiting an ambiguity along the coordinate axis; and
7 ordering indicia in subsets according to other coordinate axes of the multidimensional space.
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